Tools to Support Antimicrobial Stewardship all resources available @ www.RxFiles.ca/ABX



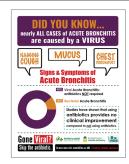
Clinic Posters to Raise Antibiotic Awareness



SINUSITIS PHARYNGITIS BRONCHITIS

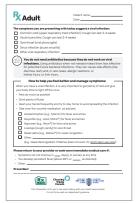






ACUTE OTITIS MEDIA

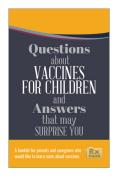
Adult & Pediatric Viral Rx





Previous versions available in multiple languages.

Related Antibiotic Materials







Thank you for participating in
an academic detailing visit. Please scan/click here to complete a quick **SURVEY**.





CONNECT WITH US







Scan here to download the Firstline app.

Additional Resources

- Amoxicillin High-Dose Infographic link
- Penicillin Allergy De-labeling Tool link
- Penicillin Allergy Q & A link
- Antibiotic Harms Q & A link
- Antibiotics Chart link
- Common Infections Chart link

- Firstline App / Online link
- Ped Amox & Clavulin Dosing link
- Bugs are Getting Stronger Poster link

- Delayed Rx link
- Using Antibiotics Wisely in Primary Care link

For printed copies of RxFiles resources contact: info@rxfiles.ca.

2024



Gone Viral? Skip the antibiotic.

Sometimes NO PRESCRIPTION is the RIGHT PRESCRIPTION

To learn more visit: www.RxFiles.ca/ABX







DID YOU KNOW...

MANY EAR INFECTIONS GET BETTER WITHOUT AN ANTIBIOTIC

EAR INFECTIONS ARE ALSO KNOWN AS ACUTE OTITIS MEDIA

Your provider may recommend waiting 48 hours to help determine whether or not an antibiotic is needed.

How long has your child been bothered by these symptoms?



IRRITABILITY

RECENT COLD



+/-

DIFFICULTY SLEEPING

Most children will get better without an antibiotic, even if the infection is caused by a bacteria.

You can expect your child to get better within 7 days.

TIPS FOR PAIN & FEVER RELIEF

- Some options include **acetaminophen** TYLENOL or **ibuprofen** ADVIL/MOTRIN.
- Schedule these regularly for the first 48 hours while awake, then as required.
- Using a **child's weight rather than age** to determine how much medicine to give **may provide better pain and/or fever relief.**
- Ask a healthcare provider to help calculate the best dose.









To learn more visit: www.RxFiles.ca/ABX Promoting antibiotic awareness

DID YOU KNOW...

nearly ALL CASES of ACUTE SINUSITIS in adults are caused by a VIRUS

NASAL DISCHARGE CONGESTION

FACIAL PAIN

How long have you had these symptoms?

A **BACTERIAL** cause is only suggested when signs & symptoms persist without improvement for **10 days** OR worsen within 10 days after an initial improvement.



98% Viral Acute Sinusitis: antibiotics NOT required

2% Bacterial Acute Sinusitis

Focus on SYMPTOM MANAGEMENT









DID YOU KNOW... MOST CASES OF SORE THROAT ARE CAUSED BY VIRUSES

SORE THROAT IS ALSO KNOWN AS ACUTE PHARYNGITIS





SWOLLEN and/or WHITE TONSILS



Signs & Symptoms of Acute Pharyngitis



Depending on your symptoms, between 70 to 99% of sore throats will be VIRAL and will <u>NOT</u> require antibiotics.

Your provider may wait for the results of a **THROAT SWAB to help determine** whether or not an antibiotic is needed.









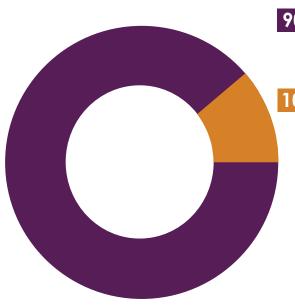
DID YOU KNOW...

nearly ALL CASES of ACUTE BRONCHITIS are caused by a VIRUS

NAGGING COUGH **MUCUS**

CHEST
PISCOMFORT

Signs & Symptoms of Acute Bronchitis



90% Viral Acute Bronchitis: antibiotics NOT required

Bacterial Acute Bronchitis

Studies have shown that using antibiotics provides no clinical improvement

compared to <u>not</u> using antibiotics.









ARTITIBIOTICS:

How the RISKs of USING may outweigh the RISKs of NOT-USING, particularly for infections commonly caused by viruses

Most antibiotics for common infections are considered safe, but this "reputation" may be overstated. For infections caused by viruses and those known to resolve on their own, the potential harms should be appreciated.

DON'T UNDERESTIMATE potential antibiotic harms!



High rates of antibiotic use leads to bacteria being RESISTANT to the drug's effects.

Antibiotics are responsible for almost 1 OUT OF 5 Emergency Room visits for adverse drug events.





It is common to have undesirable side effects.

RARE BUT SERIOUS adverse events can occur, e.g. tendon problems, severe skin reactions.





Allergic reactions can occur with any antibiotic.
The more serious reactions are rare but can be life-threatening.

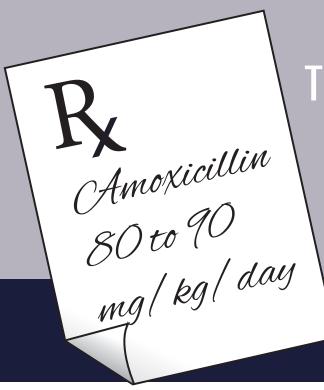
There aren't really any harms with antibiotics are there?



Well — Yes
Actually there are!!!
Consider the following..



For more information, visit www.RxFiles.ca/ABX



THE DOSE MAY APPEAR HIGH BUT LIKELY NOT A REASON TO CALL

CONSIDER & CALCULATE FIRST

Example of a 90 mg/kg/day prescription for acute otitis media

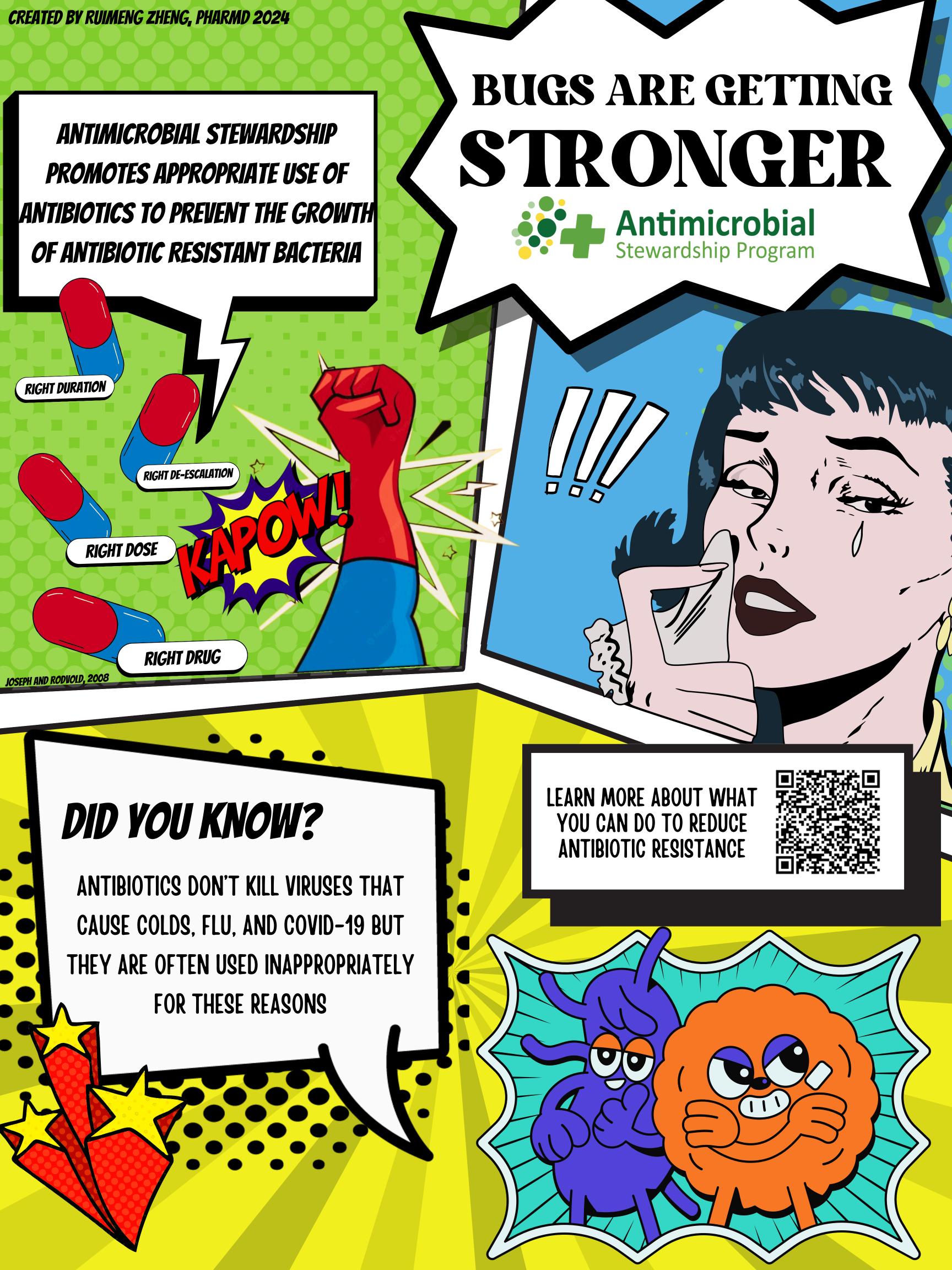
Child's WEIGHT (kilograms)	Child's WEIGHT (approx. pounds)	Typical AGE for Child of this Weight	Typical HIGH DOSE Amoxicillin Prescription If using 250 mg/5mL		Typical DURATION of Treatment
7	15	6 to 11 months	300 mg BID =	6 mL BID	10 days
9	20	12 to 23 months	400 mg BID =	8 mL BID	
14	30	2 to 3 year old	625 mg BID =	12.5 mL BID	5 days
18	40	4 to 5 year old	800 mg BID =	16 mL BID	(may be up to 10 days if recurrent infection, treatment failure or perforated ear drum)
23	50	6 to 7 year old	1000 mg BID =	20 mL BID	
27	60	8 to 9 year old	1200 mg BID =	24 mL BID	
Usual pediatric maximum dose is 4 grams per day					

- Guidelines recommend high-dose amoxicillin for greater effectiveness for infections in certain
 individuals who have risk factors for intermediate-resistant Streptococcus pneumoniae (e.g. daycare,
 years old, antibiotic exposure within last 3 months, unimmunized/underimmunized).
- High-dose amoxicillin is indicated for some cases of acute otitis media (BID or TID x 5 to 10 days), and sometimes other infections, such as community-acquired pneumonia (TID x 5 to 7 days for non-severe).
- After completing a weight-based dose check on a pediatric prescription, the higher dose range may sometimes appear alarmingly 'adult-like', but is reasonable, effective and well-tolerated.

For more information, visit www.RxFiles.ca

References:

- 1. Blondel-Hill E, Fryters S. Bugs & Drugs 2.0. Alberta Health Services; 2023. App Accessed March 2024
- 2. Firstline. Jim Pattison Children's Hospital. Acute Otitis Media guideline. Saskatchewan Health Authority; 2024. App Accessed March 2024.
- 4. Le Saux N, Robinson JL; Canadian Paediatric Society. Management of acute otitis media in children six months of age and older. Paediatr Child Health. 2016 Jan-Feb; 21(1):39-50.
- . Le Saux N, Robinson JL; Canadian Paediatric Society. Uncomplicated pneumonia in healthy Canadian children and youth: Practice points for management. Paediatr Child Health. 2015 Nov-Dec;20(8):441-5



PENICILLIN ALLERGY ON-FILE?

PENICILIN ALLERGIES ARE RARE!

10% of the population carry a penicillin allergy label.

But less than 1% of people have a true penicillin allergy.











Patient history can be used to assess the actual risk of penicillin allergies.













RISKS TO PATIENTS WITH PENICILLIN ALLERGY LABELS

- Increased risk of side effects
- Increased use of broad-spectrum antibiotics
- Increased risk of antibiotic resistance
- Longer length of hospital stays
- Increased risk of future infections





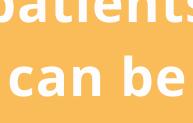


Found in the guidelines section of Firstline!

It only takes a couple of minutes to assess the patient's risk.



Very low-risk patients







Notify the PCP to receive orders and fill out the Drug Allergy Assessment Outcome Form



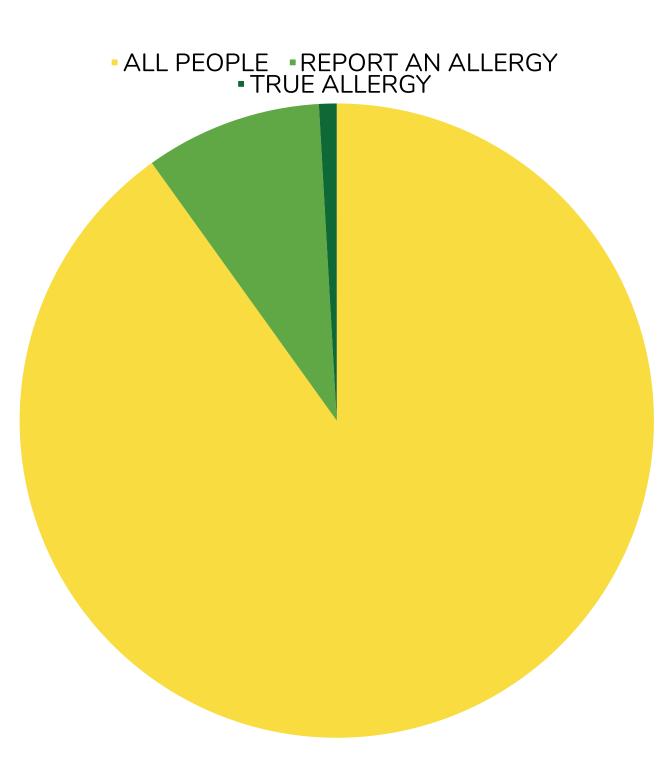


Do you actually have a penicillin allergy?

TRUE PENICILLIN ALLERGIES ARE VERY RARE less than 1%



- 10% of people report they have a penicillin allergy BUT less than 1% are truly allergic
- Majority of penicillin allergic patients are no longer allergic after 10 years



Not sure if you have a TRUE penicillin allergy or just an INTOLERANCE?

ASK a healthcare provider to assess your RISK of having a TRUE allergy.



Being INCORRECTLY labeled with a penicillin allergy means you are more likely to receive ALTERNATIVE antibiotics which:

- may be LESS EFFECTIVE
- have more SIDE EFFECTS
- may increase the risk of ANTIBIOTIC RESISTANCE





OBJECTIVE & COMPARATIVE DRUG INFORMATION

a balanced, independent approach to the rapeutic decision making



14th EDITION: AVAILABLE NOW

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